

WHAT IS CLAIMED IS:

1. A revenue meter for measuring the delivery of electrical energy from an energy supplier to a consumer through an electric circuit, the revenue meter comprising:

5 a graphic user interface connected with the revenue meter, said graphic user interface providing a variable context;

a meter cover operative to enclose the revenue meter and said graphic user interface;

10 a context adaptable input device located on said meter cover and connected with the revenue meter, said variable function input device being operative to interact with said variable context graphic user interface without removing said meter cover.

2. The revenue meter according to claim 1 wherein said context adaptable input device comprises a keypad.

15 3. The revenue meter according to claim 1 wherein said context adaptable input device comprises a touch screen.

4. The revenue meter according to claim 1 wherein said context adaptable input device comprises a mouse.

20 5. The revenue meter according to claim 1 wherein said context adaptable input device comprises a track ball.

6. The revenue meter according to claim 1 wherein said context adaptable input device comprises a light pen.

7. The revenue meter according to claim 1 wherein said context adaptable input device comprises a membrane switch.

25 8. The revenue meter according to claim 1 wherein said context adaptable input device comprises a joystick.

9. The revenue meter according to claim 1 wherein said context adaptable input device comprises a dial.

10. The revenue meter according to claim 2, further including intermediate actuators to mechanically connect said keypad with said graphic user interface of the revenue meter.

11. The revenue meter according to claim 2, wherein said keypad further includes a web portion which allows a plunger of said keypad to move in a direction generally perpendicular to said keypad.

12. The revenue meter according to claim 11 wherein the keypad is elastic.

13. The revenue meter according to claim 2, further including a compression plate operative to compress said keypad to said meter cover, to provide the water tight seal.

14. The revenue meter according to claim 13, wherein said compression plate includes a locating portion operative to align said keypad to said intermediate actuators.

15. The revenue meter according to claim 1 wherein the revenue meter is programmed to scroll through a series of preset displays and wherein a user may use said context adaptable input device to interrupt said scrolling.

16. The revenue meter according to claim 15 wherein said revenue meter is programmed such that said user can scroll through one or more previously displayed screens in the revenue meter using said context adaptable input device.

17. The revenue meter according to claim 2 wherein said keypad comprises keypad buttons.

18. The revenue meter according to claim 2 wherein said meter cover includes alignment means for aligning said context adaptable input device to said intermediate actuators.

5 19. The revenue meter according to claim 18 wherein said alignment means comprises a compression plate with a locating portion.

20. The revenue meter according to claim 1, further comprising:  
bayonet terminals disposed on the revenue meter mateable with  
matching jaws of a detachable meter mounting device; and  
a seal connected between the revenue meter and said  
10 detachable meter mounting device, said seal operative to prevent removal of  
the revenue meter and indicate tampering with the revenue meter.

21. The revenue meter according to claim 1, further comprising:  
a display;  
terminals disposed on a bottom side of the revenue meter for  
coupling the revenue meter with the electric circuit;  
15 a terminal cover for covering said terminals; and  
a first seal connected with said meter cover and operative to  
prevent removal of said meter cover.

22. The revenue meter according to claim 1, further comprising:  
20 a draw-out chassis coupled with the revenue meter and  
operative to fit within a switchboard enclosure;  
terminals disposed on said chassis for engaging matching  
terminals within said enclosure;  
a display; and  
25 a seal connected with said meter cover and operative to prevent  
removal of said meter cover and indicate tampering with the revenue meter.

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